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1
Ag 854E
Reserve

Graduate School

1947-48



27th Year

Schedule of Classes

Spring Semester

REGISTRATION—Begins January 12

HOURS:

9:00 A.M. to 6:20 P.M., Monday through Friday

9:00 A.M. to 1:00 P.M., Saturdays, Jan. 24, 31

PLACE:

Room 1031, South Bldg., Dept. of Agriculture

CLASSES BEGIN WEEK OF FEBRUARY 2

Time Schedule and Supplement to 1947-48 Bulletin

Complete details, including rules and regulations, policies, and course descriptions, are given in the 1947-48 Bulletin. Counselors and training officers of your agency have a copy which you may examine. A limited number of these BULLETINS is available for distribution to those who did not receive copies in the fall. Write or call in person. Please do not telephone.

New Courses, or courses differing from the description shown in the 1947-48 Bulletin, are indicated by an asterisk following the course title. Complete course descriptions are available in the School office.

New instructors not listed in the faculty directory in the Bulletin are indicated by an asterisk after the name. Pertinent data are available in the School office.

Counseling on courses and programs of study is available at all times from members of the School staff who are glad to assist students in planning their work.

Registration: begins January 12 (Room 1031, South Building, Department of Agriculture). See schedule of hours on front cover. No one will be registered for credit after February 13, except with special permission of instructor and Registrar. A late registration fee of \$1.00 per course will also be charged after February 13. Registration closes in a course when the maximum for that class is reached.

Textbooks may be purchased in Room 1041, South Agriculture Building, from 4:30 to 6:20 p.m., January 19 through February 13, Monday through Friday. Open Saturday, February 24 and 31, 9:00 a.m. to 1:00 p.m.

Refund of fees, less \$3.00 registration fee, may be granted in case of withdrawal before 6:20 p.m., February 13. After this date no refunds will be approved unless the student is compelled to leave Washington because of official governmental action.

Room schedules will be posted on the 4th and 7th wing bulletin boards in the South Agriculture Building.

Classes begin during week of February 2, end the week of May 12.

Graduate School, Department of Agriculture
Washington 25, D.C.

Please send me your 1947-48 BULLETIN. (Fall requests will not be duplicated.)

Name.....

Street.....

City.....

Zone

No.....

Explanation: Basic information about each course is given in the following order: course number, title, instructor, day and hour of class meeting, fee, and page of 1947-48 **Bulletin** on which description may be found. New courses and new instructors are indicated by an asterisk. The first half and the second half of a course are indicated by a and b respectively.

BIOLOGICAL SCIENCES

201. **Beekeeping** (Nolan) Tu 6-8 (every other week) \$8 p. 20
 512^b. **Medical and Veterinary Entomology** (Bishopp) M 6-8 \$18 p. 21

LANGUAGES AND LITERATURE

- 222^a. **English Composition** (Miller) Tu 6-9 \$24 p. 23
 222^b. **English Composition** \$24 p. 23
 Section I (K. Ward) Tu 6-9
 Section II¹ (Mooney)* W-F 4:40-6:10
 223. **Descriptive English Grammar** (K. Ward) M 6-8 \$16 p. 24
 118. **Practical English Usage** (White) Th 6-8 \$16 p. 24
 119. **Vocabulary Building** (Murphy)* Th 6-8 \$16 p. 24
 224. **Creative Writing** (Holt) Tu 6-8 \$16 p. 24
 410. **Advanced Writing Seminar** (Holt) Th 6-8 \$18 p. 25
 330. **Great Books** (Ruppert)* M 6:30-8:30 \$16 p. 25
 229. **Effective Speaking** \$16 p. 26
 Section I² (Ehrensberger)* M 5-7
 Section II (Mohler) Th 6-8 (Laboratory fee \$1.50)
 400. **Advanced Public Speaking** (Beauchamp) Tu 6-8 \$18 p. 26
 232. **Voice and Remedial Speech** (Emery) Tu 6-8 \$16 and \$1.50 laboratory fee p. 26
 50. **Speech Clinic** (Emery) (schedule to be arranged) \$30 p. 26
 305. **Radio and the Human Voice** (Rowell) M 6-8 \$16 and \$1.50 laboratory fee p. 26
 320. **Introduction to Public Information Media** (Fitzpatrick) W 6-8 \$16 p. 27
 225^b. **Editing** (Merrill and Specialists) M-W 7:15-8:45 \$24 p. 27
 200. **Readable Writing** (Cowing and Mileham) Th 6:30-8:30 \$16 p. 27
 226^b. **Writing for Official Purposes** (McClarren and Specialists) Th 6:30-8:30 \$16 p. 28
 350. **Effective Meetings** (Ensminger and Boatman) M 6-8 \$16 p. 28
 237. **Government Printing Procedure** (L. Anderson) Th 6:30-8:30 \$16 p. 29
 43. **Personal Development** (Provensen, Galvin) Tu 6-8 \$16 p. 29
 253^a. **Elementary French** (De Noia) M-Th 6-7:30 \$24 p. 32
 253^b. **Elementary French** (Humphrey) M-Th 6-7:30 \$24 p. 32
 254^b. **Intermediate French** (Humphrey) Tu-F 6-7:30 \$24 p. 32
 255. **French Conversation** (Given) W 6-9 \$24 p. 32
 259^a. **Elementary German** (Ponti) M 6-9 \$24 p. 32
 259^b. **Elementary German** (Marianne Lederer) M-Th 6-7:30 \$24 p. 32
 260^b. **Intermediate German** (Max Lederer) W 6-9 \$24 p. 32

¹ To be given at the Naval Gun Factory.

² To be given at the USDA Plant Industry Station, Beltsville.

60. **Elementary Technical German**^{1*} (Marianne Lederer)
Tu 4:30-6:30 \$16
- 270^b. **Elementary Italian** (Rossetti) W 6-9 \$24 p. 32
- 271^b. **Intermediate Italian** (Rossetti) Th 6-9 \$24 p. 32
- 295^a. **Elementary Russian** (Lapiken) Tu 6-9 \$24 p. 33
- 295^b. **Elementary Russian** \$24 p. 33
Section I (Schuler) M 6-9
Section II (Tarakus) W 6-9
- 296^b. **Intermediate Russian** (Saharov) Tu 6-9 \$24 p. 33
- 297^b. **Conversational Russian** (Saharov) W 6-9 \$24 p. 33
70. **Intermediate Technical Russian**^{1*} (Pingell)* W
4:30-6:30 \$16
- 300^a. **Elementary Spanish** (B. Supervia) M 6-9 \$24 p. 33
- 300^b. **Elementary Spanish** \$24 p. 33
Section I (Batista) W 6-9
Section II (E. Jaffe) Th 6-9
- 301^b. **Intermediate Spanish** (Parsons) W 6-9 \$24 p. 33
- 302^b. **Spanish Conversation and Literature** (R. Supervia)
Tu 6-8 \$16 p. 34

MATHEMATICS AND STATISTICS

MATHEMATICS

102. **Algebra**² (Cramer)* (time to be arranged) \$24 p. 41
103. **Plane Trigonometry**² (Rothschild)* (time to be arranged) \$16
103. **Plane Trigonometry**³ (Breslin)* M-Th 3:45-5:15 \$24 p. 41
103. **Plane Trigonometry and Analytic Geometry** (Rhodes) M-F 7-8:30 \$24 p. 41
105. **Analytic Geometry** \$32
Section I¹ (Ament)* M-W-Th 3:40-5:20
Section II² (Shanks)* (time to be arranged)
206. **Calculus**⁶ (Bleil)* M-W-F 4-5:40 \$32 p. 41
- 206^b. **Calculus**¹ (Lett)* M-W-Th 3:40-5:20 \$32 p. 41
- 206^b. **Calculus** \$24 p. 41
Section I (Weyl)* W-F 6-7:30
Section II⁴ (Greenwood)* Th 3-6
307. **Survey of College Mathematics** (Schell) Tu 6-9 \$24 p. 41
502. **Differential Equations** (Blake)* Th 6:30-9:30 \$27 p. 41
700. **Vector Analysis*** (to be announced) Tu-Th 4:45-6:15 \$27
708. **Linear Algebra** (Daly) Tu 6-9 \$27 p. 42
712. **Theory of Functions** (Daly) Th 6:30-8:30 \$18 p. 42

STATISTICS

123. **Survey of Statistics** (Nisselson) W 6-9 \$24 p. 43
110. **Graphic Methods of Presenting Statistics** (Hainsworth and Guidry) Tu 6-8 \$16 p. 43
- 126^b. **Introductory Statistics** (Purves) W 6:15-8:15 \$16 p. 43
- 127^a. **Elementary Statistical Analysis** (Steinberg) Th 6-8 \$16 p. 43
- 127^b. **Elementary Statistical Analysis** \$16 p. 44
Section I⁵ (Marcuse) M 5-7
Section II (Wood)* M 6-8
- 516^b. **Intermediate Statistics** (Marks)* Tu 6-8 \$18 p. 44
318. **Machine Tabulation** (Kaufman) W 6:30-8:30 \$12 p. 44
319. **Advanced Study of Tabulating Equipment** (Kaufman) F 6:30-8:30 \$12 p. 44

¹ To be given at the Naval Research Laboratory.

² To be given at the Naval Gun Factory.

³ To be given at the David Taylor Model Basin.

⁴ To be given at Patuxent, Maryland.

⁵ To be given at the USDA Plant Industry Station, Beltsville.

⁶ To be given at the Naval Ordnance Laboratory.

525. Elementary Analysis of Variance (Nisselson) Tu 6-9
\$27 p. 44
- 727^b. Planning of Statistical Surveys (A. Jaffe) W 7-9
\$18 p. 45
731. Least Squares and Curve Fitting (Deming) Th 6:30-
9:30 \$27 p. 45
- 735^b. Theory of Sample Surveys (Tepping) W 7:40-9:40
\$18 p. 46
- 734^b. Statistical Methods for Research Workers (Hen-
dricks) Tu 6-8 \$18 p. 46
717. Interview Survey Techniques in the Social Sci-
ences (Chapman) M 7-9 \$18 p. 46
021. Seminars in Sampling and Statistical Inference
(Deming) (Schedule to be announced)

OFFICE TECHNIQUES AND OPERATIONS

108. Administrative Procedure (Hickey) W 6-8 \$16
p. 50
208. Advanced Administrative Procedure (Moseley) M
6-8 \$16 p. 50
101. Business Mathematics (Botts) Th 6-8 \$16 p. 51
110. Federal Auditing Procedure (Cruikshank) M 6-8
\$16 p. 51
210. Advanced Federal Auditing Procedure (Collins) Tu
6-8 \$16 p. 51
112. Federal Accounting Procedure (Tierney) Th 6-9
\$24 p. 51
116. Federal Budgetary Procedure (Wilhelm) Tu 6-8
\$16 p. 52
122. Federal Payroll Procedure (Krueger, W. Marshall)
6-8 \$16 p. 52
215. Advanced Federal Purchasing Procedure (Scamma-
horn) M 6-8 \$16 p. 52
114. Federal Personnel Procedure (Mohagen) M 6-8 \$16
Th p. 53
214. Advanced Federal Personnel Procedure (Mohagen)
Tu 6-8 \$16 p. 53
217. Advanced Records Management (Donaldson, C. T.
Smith and lecturers) Tu 6-8 \$16 p. 53
413. Office Management (Braum) M 6-8 \$18 p. 54
120. Government Letter Writing (Samson) F 6-8 \$16
p. 54
89. Review of Gregg Shorthand (Evans) Tu-Th 6-7:30
\$24 p. 57
129. Beginning Gregg Shorthand I (Dwyer)* M-Tu-Th
6-7 \$24 p. 57
130. Beginning Gregg Shorthand II (Richter) M-Tu-Th
7:10-8:10 \$24 p. 57
230. Gregg Shorthand, 70 to 100 Words (Coffman) Tu-Th
6-7:30 \$24 p. 57
231. Gregg Shorthand, 100 to 130 Words (Cruzan)* M-W
6:30-8:00 \$24 p. 57
336. Reporting—Gregg, 150 Words and Up (Foote) M-Th
6:30-8:30 \$32 p. 57

PHYSICAL SCIENCES

- 100^b. General College Chemistry (Williamson) M-Th 6:30-
9 \$32 and \$7.50 laboratory fee p. 58
- 400^b. Advanced Organic Chemistry (Bowen) Th 6-8 \$18
p. 59
- 349^b. Physical Chemistry (Hamer) Tu 6-8 \$16 p. 59
- 522^b. Biochemistry (Johnston) W 6-8 \$18 p. 60
410. Food Technology—Principles and Practices*
(Warth and Specialists)* W 7-9 \$18
- 440^b. Geodesy (Thomas)* Tu 7:30-9:30 \$18

531. **Soils: Their Morphology, Genesis, and Classification**¹ (Orvedal)* M 5-8 \$27 p. 62
526. **Advanced Physical Metallurgy** (Loring) Th 6-8 \$18 p. 63
162. **Principles of Meteorology** (C. Johnson) Tu 6-9 \$24 p. 63
- 533^b. **Hydrology** (Linsley) Th 6-9 \$27 p. 63
- 534^b. **Introduction to Dynamic Meteorology** (Teweles) M 6-8 \$18 p. 64
- 536^b. **Physical and Synoptic Meteorology** (Shands) W 6-9 \$27 p. 64
- 153^b. **Introductory College Physics** (Kilgore) M-Th 6:30-9 \$32 and \$5 laboratory fee p. 64
- 430^b. **Introduction to Modern Physics** (Garstens) F 6-8 \$18 p. 65

PUBLIC ADMINISTRATION

341. **American National Government** (C. Smith) Tu 6:30-8:30 \$16 p. 69
344. **Introduction to Public Administration** (Brown) W 6-9 \$24 p. 69
400. **Administrative Operations for Congressional Assistants** (Sheppard) Tu 6-8 \$18 p. 70
626. **Federal Administrative Management** (Becknell) M 6:15-8:15 \$18 p. 70
627. **Reporting to Top Management** (French) Tu 6-8 \$18 p. 70
570. **Management Responsibilities for the Administrative Scientist** (Harwood) Th 6-8 \$18 p. 70
710. **Public Relationships in Government Administration** (Webster and Specialists) Th 6-8 \$18 p. 72
- 555^b. **Principles and Techniques of O & M Work** (Gill, Divine) W 6-8 \$18 p. 73
519. **Work Measurement and Performance Standards** (McKillop and Specialists) Tu 6-8 \$18 p. 73
- Organization and Methods Clinic** (McKillop) p. 73
636. **Agency Budgetary and Financial Administration: Budget Execution** (Roberts, Jump and Staff) Th 6-8 \$18 p. 75
561. **Public Personnel Administration** (Stahl) Tu 6-8 \$18 p. 75
559. **Position Classification** (Hill, Laxton) M 6-8 \$18 p. 76
643. **Advanced Position Classification** (Laxton, Findlay) Tu 6-8 \$18 p. 76
640. **Veterans Legislation and Administration** (Loggins and Specialists) W 6-8 \$18 p. 77
305. **Fundamentals of Accident Prevention** (Wetzel, Jenkins) W 6-8 \$16 p. 77
633. **Employee Relations and Employee Services** (Kraus) Th 6-8 \$18 p. 78
820. **Seminar on Problems of Federal Administrative Regulation** (Flavin) M 6-8 \$18 p. 79
549. **Property Management** (R. Ward and Specialists) Tu 6-8 \$18 p. 80
- 352^a. **Principles of Accounting—First Half** (H. Marshall) M 6-9 and W 6-7 \$24 p. 82
- 352^b. **Principles of Accounting—Second Half** (Dye) Tu 6-9 and Th 6-7 \$24 p. 83
- 353^b. **Intermediate Accounting** (Hord) M 6-9 \$24 p. 83
423. **Mathematics of Finance** (Botts) Tu 6-9 \$27 p. 83
354. **Federal Government Accounting** (Mason) W 6-9 \$24 p. 83
- 642^b. **Cost Accounting*** (D'Alessandro) Th 6-9 \$27 p. 84
693. **Auditing** (Cooper) Tu 6-9 \$27 p. 84
646. **Advanced Accounting Problems** (Acker) Th 6-9 \$27 p. 84

¹ To be given at the USDA Plant Industry Station, Beltsville.

SOCIAL SCIENCES

- 201^b. Principles of Economics (Burroughs) Tu 6-9 \$24
p. 90
418. Public Finance and Taxation (Haygood) W 6-8 \$18
p. 90
741. Contemporary Economic Thought (Allin) Th 6-9
\$27 p. 90
402. Measurements of Economic Activity (Bean) M 6-8
\$18 p. 91
712. Research Methods in Social Sciences (Stine and
Specialists) Th 6:30-8:30 \$18 p. 92
205. Introduction to Farming (Dixon and Staff) W 6-8
\$16 p. 93
720. Seminar in Economics of Production (S. Johnson
and Assistants) W 6-9 \$27 p. 94
721. Seminar in Agricultural Finance (Wall, Engberg)
Tu-Th 6:30-8:00 \$27 p. 95
- 414^b. Economics of Marketing (Southworth) Tu 6:15-8:15
\$18 p. 95
- 530^b. Methods of Price Analysis (Been, Walsh) W 6:15-
8:15 \$18 p. 95
750. Seminar on Prices (Wells) Tu 6-8 \$18 p. 96
416. Agricultural Cooperation (Hedges, A. R. Johnson)
W 6-9 \$27 p. 96
716. Seminar on Agricultural Policies (Minor, Wells) M
6:15-8:15 (every other week) \$9 p. 96
718. Seminar in Rural Social Policies (Woofter) W 6-8
\$18 p. 97
325. Managing Personal Finances (Larsen and Special-
ists) Tu 6-8 \$16 p. 98
445. Consumer Cooperation (Tereshtenko) Tu 6-8 \$18
p. 98
770. Seminar on Health Service Programs (Klem,
Roemer) M 6-8 \$18 p. 100
320. Economics of Labor Standards (Carroll) W 6-8 \$16
p. 101
525. Seminar on the Application of Psycho-Social and
Psychoanalytic Methods to Problems of Inter-
national Relations (Spitzer) M 6-8 \$18 p. 103
820. Seminar in American Foreign Relations, Policies
and Practices (N. Johnson) Tu 6-9 \$27 p. 103
430. Modern Russia (Tereshtenko) W 6-9 \$27 p. 105
602. Traffic Management—Rates and Rate Determina-
tion (Dolch) M-Th 6:30-8:00 \$27 p. 109
400. Psychology of Human Relations (Baier)* W 6-8
\$18 p. 110
500. Child and Adolescent Psychology (to be announced)
Th 6-8 \$18 p. 110
502. Rural Social Psychology (Taylor) M 6-8 \$18 p.
110
503. The Conditions of Personality Growth (Shepherd)
Tu 7-9 \$18 p. 110
565. Interview Workshop (Pryor, Bradford, Consultant)
W 6-8 \$18 p. 111
470. Introduction to General Semantics* (Saunders)*
W 7:30-9:30 \$18

TECHNOLOGY

402. Principles and Practices of Refrigeration (Garver)
Th 6-8 \$18 p. 116
- 475^b. Naval Architecture (Wright)* Tu 5-7 \$18
- 476^b. Ship Construction (Wright)* Th 5-7 \$18
- 702^b. Electric Utility Engineering (Jessel) M 6-8 \$18
p. 117
520. Theory and Design of Welded Structures* (Mor-
gan)* M 7-9 \$18

552. **Modern Engineering Materials** (MacLeod and Commodity Experts) Tu 7-9 \$18 p. 119
554. **Protecting Engineering and Scientific Developments Through Patents** (Kramer) Th 6-8 \$18 p. 120
216. **Ground Methods of Topographic Surveying** (Rappleye) M 6-8 \$24 (Field work all day every fourth Saturday) p. 120
- 212^b. **Elementary Aerial Photogrammetry** (Higginson) W-F 7-9 \$24 p. 121
- 213^b. **Advanced Aerial Photogrammetry** (Tewinkel, Colner)* M 6-9 \$16
- 214^b. **Cartography** (Everett) Tu 6-8 \$16 p. 121
321. **Pencil Sketching and Freehand Drawing** (Cadmus) M-W 6-8 \$24 p. 121
322. **Art Appreciation** (Richards) Tu 6-8 \$16 p. 121
323. **Drawing for Portraiture and Illustration** (to be announced) M-W 6-8 \$24 p. 122
320. **Water Color Painting** (Lyon) M-Th 6-8 \$24 p. 122
331. **Home Decoration—Furniture** (Garrels) W 6-7 \$8 p. 122
332. **Advanced Home Decoration—Modern** (Garrels) W 7-8 \$8 p. 122
317. **Lawns and Plant Materials** (Gardner) Th 6-8 \$16 p. 122
318. **City Planning and Urban Development** (Sanders) Tu 6-8 \$16 p. 123
325. **Basic Mechanical Drawing II** (Wiemer) Tu-F 6-8 \$24 p. 123
341. **Architectural Drafting II** (Wiemer) M-Th 6-8 \$24 p. 123
343. **Architectural Drafting IV** (Wiemer) M-Th 6-8 \$24 p. 123
188. **Glass Blowing** (Clark) M-W 6-7:30 \$24 p. 124
329. **Home Gardening** (Youngman) W 6-8 \$16 p. 124
70. **Popular Photography** (Knoblock) Tu 6-8 \$16 p. 125
192. **Fundamentals of Photography I** (Briggs) M 6-8 \$16 p. 125
193. **Practice of Photography I** (Briggs) W 6-8 \$16 and \$3 laboratory fee p. 125
194. **Fundamentals of Photography II** (Cobb) W 6-8 \$16 p. 125
195. **Practice of Photography II** \$16 and \$3 laboratory fee p. 125
Section I (Purdy) M 6-8
Section II (Koch)* Tu 6-8
308. **Color Photography—Practice** (Mohr) Th 6-9 \$24 and \$5 laboratory fee p. 126
- 360^b. **Portrait Photography** (Purdy) F 6-8 \$16 and \$4 laboratory fee p. 126

Courses are open to non-Federal employees insofar as facilities permit

Summer Session—18 weeks—

June 1 through August 6 Program available May 10